KILR® HepG2 Cell Pool

Catalog Number: 97-1032P044 **Lot Number:** See Vial

Contents: 1 x 10^6 cells per vial in 1 mL

Background

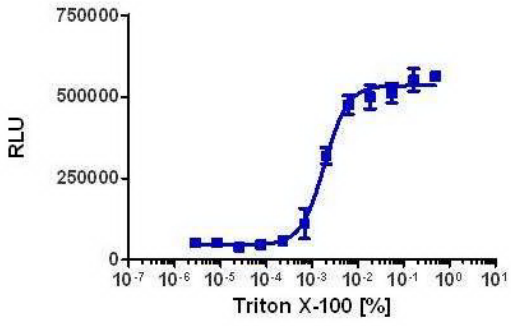
KILR cell lines are engineered to express an enhanced Prolabel (ePL) tagged housekeeping gene and may sometimes overexpress an untagged version of a receptor. Once the cells have been lysed the ePL-tagged protein is released into the media. Addition of enzyme acceptor (EA) will cause the complementation of the β-galactosidase enzyme fragments, EA and ePL. The resulting functional enzyme will hydrolyze its substrate to generate a chemiluminescent signal.

Product Information

Cell Background:	HepG2
Cell Line Species:	Human
Cell Line Source:	ATCC
Cell Type:	Hepatocellular carcinoma
Culture Mode:	Adherent
Cytotoxicity Validation:	N/A
Storage:	Short term (<24 h): Store at -80°C; Long term (>24 h): Store in vapor phase of liquid nitrogen.

Cytotoxicity Assay Performance

Cells were plated in a 96-well plate and incubated at 37°C and 5% CO_2 for indicated amount of time. Compound was added and the plate was incubated at 37°C/5% CO_2 using the assay conditions described below. Target cell death was detected using the KILR detection reagent according to the recommended protocol. Additional reagents needed are noted on this document.



Target Cell Number/Well:	10,000
Control Compound:	Triton X-100
Cell Seeding Time (minutes):	0
Compound Incubation Time (minutes):	960
Compound Incubation Temperature (°C):	37
EC_{50} for Compound:	0.002
Signal:Background Ratio:	11.6
Max % Lysis:	97

HepG2 cells can be difficult to recover from thaw & to culture. Refer to the ATCC HepG2 FAQ section for more info {https://www.atcc.org/products/hb-8065}. Non-adherent cells may take 3d after thaw to attach. Floating cells can be centrifuged and replated to aid attachement. Once attached, cells may take additional time to dissociate and form clumps. Pipet cells carefully to re-suspend cells. For optimal results, use 0.05% Trypsin-EDTA to lift cells for seeding in assay.

Passage Stability

This cell line has been confirmed to be stable through 15 passages with no significant drop in assay window or change in EC_{50}.

Mycoplasma Testing

This lot was tested and found to be free of mycoplasma contamination. Data available upon request.

Required Materials

The following additional materials are required but not provided:

Product Use*	Product Description	Catalog Number
Detection	KILR® Detection Kit	97-0001M
Cell Culture	AssayComplete™ Cell Culture Kit-103	92-3103G
Cell Plating	AssayComplete™ Cell Plating 39 Reagent	93-0563R39A
Cell Detachment	AssayComplete™ Cell Detachment Reagent	92-0009
Cell Thawing	AssayComplete™ Thawing Reagent T3	92-4103TR
Cell Freezing	AssayComplete™ Freezing Reagent F3	92-5103FR
Ligand Dilution	AssayComplete™ Protein Dilution Buffer	92-0023

*Please inquire about our cell line-specific AssayComplete Starter Packs to get you started with your cell culture needs.

Required Antibiotics

Antibiotic Name	Concentration (µg/mL)	Catalog Number
AssayComplete™ Puromycin	Not Applicable	Not Applicable
AssayComplete™ Hygromycin B	Not Applicable	Not Applicable
AssayComplete™ G418	250	92-0030

Additional Ligand Information

Control Compound: Triton X-100

Ordering: +1.510.979.1415 option 4 or e-mail CustomerServiceDRX@eurofins.com
Technical support: +1.510.979.1415 option 5 or e-mail DRX_SupportUS@eurofinsUS.com
General product information: www.discoverx.com

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